

RAID ate my PCIe-PCI bridge's MMIO address space (?)

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-10/msg12117.html>

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 - *Date:* Thu, 30 Oct 2008 11:25:27 +0100
-

Hi guys,

I have a problem with my sound card. It is the only regular PCI device in my system and the problem is apparently not directly the sound card's. alsamixer works fine but any application trying to play sound will either hang when trying to play the first sample (mplayer, aplay) or report an error (amarok with xine backend).

mplayer, for example, hangs in an endless loop of this:

```
nanosleep({0, 10000000}, NULL) = 0
ioctl(5, 0x4122, 0) = 0
ioctl(5, 0x4122, 0) = 0
```

Hardware:

Gigabyte GA-MA78G-DS3H mainboard, AMD 780G chipset
2 GB memory
Phenom quad-core CPU in AMD64 mode
2 SATA harddisks
1 PATA cdrom
on-board graphics
PCI sound card M-Audio Revolution 7.1 (ice1724)

Software:

Kubuntu 8.10, kernel 2.6.27
Software RAID1 (aka md-raid (?))
[the rest is probably not interesting]

When I boot a live CD of the same distro with the same kernel the soundcard works fine (and no, it's not a matter of some process blocking the card). The diff of loaded modules looks like this:

- snip -

```
diff -u modlist.live modlist.inst
--- modlist.live 2008-10-30 03:32:59.000000000 +0100
+++ modlist.inst 2008-10-30 03:48:38.000000000 +0100
```

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```
@@ -1,30 +1,34 @@
ac 13448 0
ac97_bus 10368 1 snd_ac97_codec
-af_packet 29568 2
-ahci 43148 2
+ahci 43148 4
+async_memcpy 10752 1 raid456
+async_tx 16764 3 raid456,async_xor,async_memcpy
+async_xor 12032 1 raid456
ata_generic 14212 0
-aufs 196968 1
battery 21128 0
bitblit 14592 1 fbcon
-bluetooth 70820 6 bnep,rftcomm,sco,l2cap
+bluetooth 70820 6 rftcomm,bnep,sco,l2cap
bnep 23168 2
bridge 64544 0
button 15904 0
cdrom 47784 1 sr_mod
container 12288 0
cpufreq_conservative 16392 0
-cpufreq_ondemand 16400 4
+cpufreq_ondemand 16400 0
cpufreq_powersave 10368 0
cpufreq_stats 14468 0
-cpufreq_userspace 12420 0
+cpufreq_userspace 12420 4
crc_t10dif 10240 1 sd_mod
+crypto_blkcipher 27780 1 dm_crypt
+dm_crypt 22792 0
+dm_mod 72944 1 dm_crypt
dock 18464 1 libata
ehci_hcd 48908 0
-evdev 20512 7
-exportfs 13568 1 aufs
+evdev 20512 3
ext3 150544 1
fan 13576 0
fbcon 51200 0
+fglrx 2082944 28
font 17152 1 fbcon
freq_table 13568 3
powernow_k8,cpufreq_stats,cpufreq_ondemand
fuse 68288 1
@@ -33,22 +37,23 @@
i2c_piix4 17936 0
iptables_filter 11520 0
ip_tables 28176 1 iptable_filter
-isofs 44072 1
+ipv6 314312 18
jbd 66472 1 ext3
```

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```
joydev 20736 0
-l2cap 33280 6 bnep,rfcomm
-libata 200160 4
pata_atiixp,pata_acpi,ata_generic,ahci
-loop 26380 2
+l2cap 33280 6 rfcomm,bnep
+libata 200160 4
pata_atiixp,pata_acpi,ahci,ata_generic
+linear 13440 0
lp 19588 0
mbcache 17924 1 ext3
+md_mod 102948 7
raid10,raid456,raid1,raid0,multipath,linear
Module Size Used by
-nls_cp437 15232 1
+multipath 16512 0
ohci_hcd 34972 0
output 11776 1 video
parport 50096 3 ppdev,parport_pc,lp
parport_pc 44200 0
pata_acpi 13568 0
-pata_atiixp 14208 1
+pata_atiixp 14208 0
pci_hotplug 39472 1 shpchp
pci_slot 13704 0
pcspkr 11136 0
@@ -56,25 +61,28 @@
ppdev 16904 0
processor 47800 2 powernow_k8,thermal
r8169 40196 0
+raid0 15488 0
+raid10 32000 0
+raid1 32640 1
+raid456 139552 0
rfcomm 51104 0
sbs 22288 0
sbsbc 14592 1 sbs
sco 20612 2
scsi_mod 183160 4 sr_mod,sd_mod,sg,libata
-sd_mod 45864 4
+sd_mod 45864 6
sg 45408 0
shpchp 42140 0
-snd 79432 19
snd_hda_intel,snd_ice1724,snd_ac97_codec,snd_pcm_oss,snd_mixer_oss,snd_ak4xxx_adda,snd_ak4114,snd_pt2258,s
+snd 79432 14
snd_ice1724,snd_ac97_codec,snd_ak4xxx_adda,snd_ak4114,snd_pcm_oss,snd_mixer_oss,snd_pcm,snd_pt2258,snd_i
snd_ac97_codec 133080 1 snd_ice1724
snd_ak4114 19328 1 snd_ice1724
snd_ak4xxx_adda 17792 2 snd_ice1724,snd_ice17xx_ak4xxx
-snd_hda_intel 489264 1
```

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```
snd_i2c 14720 2 snd_ice1724,snd_pt2258
-snd_ice1724 119912 1
+snd_ice1724 119912 0
snd_ice17xx_ak4xxx 12416 1 snd_ice1724
snd_mixer_oss 25088 1 snd_pcm_oss
-snd_page_alloc 17680 2 snd_hda_intel,snd_pcm
-snd_pcm 99208 5
snd_hda_intel,snd_ice1724,snd_ac97_codec,snd_pcm_oss,snd_ak4114
+snd_page_alloc 17680 1 snd_pcm
+snd_pcm 99208 4
snd_ice1724,snd_ac97_codec,snd_ak4114,snd_pcm_oss
snd_pcm_oss 52608 0
snd_pt2258 12800 1 snd_ice1724
snd_rawmidi 34176 2 snd_ice1724,snd_seq_midi
@@ -87,13 +95,15 @@
snd_timer 34320 2 snd_pcm,snd_seq
softcursor 10496 1 bitblit
soundcore 16800 1 snd
-squashfs 48912 1
-sr_mod 24644 1
+sr_mod 24644 0
stp 11268 1 bridge
thermal 27424 0
tileblit 11264 1 fbcon
-usbcore 175376 4 usbhid,ehci_hcd,ohci_hcd
+tun 20996 0
+usbcore 175376 4 usbhid,ohci_hcd,ehci_hcd
usbhid 39776 0
video 28948 0
wmi 15808 0
+xfstools 575376 1
+xor 14096 2 raid456,async_xor
x_tables 31752 1 ip_tables

- snip -
```

Note that fglrx or no fglrx, as well as Intel HDA driver or no HDA driver, don't make any difference for my problem – I tested that.

Some Ubuntu bug report that I can't find again suggested that RAID may actually cause problems due to "suboptimal" address space allocation. I found that bug report when searching for the specific error message "shpchp: shpc_init: cannot reserve MMIO region" that is present when booting the installed system but not when booting the live CD.

The md modules are loaded from initramfs, way before the PCI bridge driver, so it seems plausible that they somehow snatch a piece of address space that they shouldn't.

Presumably this could be due to md wanting avoid copying, hence allocating MMIO address space.

/var/log/syslog and lspci -vv output are appended so you can see for yourself. I can test bugfix and diagnostic patches as well.

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Cheers,
Andreas

/var/log/syslog:

```
Oct 30 09:59:18 rechenplan syslogd 1.5.0#2ubuntu6: restart.
Oct 30 09:59:18 rechenplan kernel: Inspecting /boot/System.map-2.6.27-7-generic
Oct 30 09:59:18 rechenplan kernel: Cannot find map file.
Oct 30 09:59:18 rechenplan kernel: Loaded 59100 symbols from 107 modules.
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Initializing cgroup
subsys cpuset
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Initializing cgroup subsys cpu
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Linux version
2.6.27-7-generic (buildd@yellow) (gcc version 4.3.2 (Ubuntu
4.3.2-1ubuntu10) ) #1 SMP Fri Oct 24 06:40:41 UTC 2008 (Ubuntu
2.6.27-7.14-generic)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Command line:
root=/dev/md0 ro
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] KERNEL supported cpus:
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Intel GenuineIntel
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] AMD AuthenticAMD
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Centaur CentaurHauls
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-provided
physical RAM map:
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
0000000000000000 - 000000000009f800 (usable)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
000000000009f800 - 00000000000a0000 (reserved)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
00000000000f0000 - 0000000000100000 (reserved)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
0000000000100000 - 000000000077de0000 (usable)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
000000000077de0000 - 000000000077de3000 (ACPI NVS)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
000000000077de3000 - 000000000077df0000 (ACPI data)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
000000000077df0000 - 000000000077e00000 (reserved)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
00000000e0000000 - 00000000f0000000 (reserved)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] BIOS-e820:
00000000fec00000 - 0000000100000000 (reserved)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] last_pfn = 0x77de0
max_arch_pfn = 0x3fffffff
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] init_memory_mapping
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] 0000000000 -
0077c00000 page 2M
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] 0077c00000 -
0077de0000 page 4k
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] kernel direct
```

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```
mapping tables up to 77de0000 @ 8000-c000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] last_map_addr:
77de0000 end: 77de0000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] RAMDISK: 3771b000 - 37fef549
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] DMI 2.4 present.
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: RSDP 000F71C0,
0014 (r0 GBT )
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: RSDT 77DE3000,
0038 (r1 GBT GBTUACPI 42302E31 GBTU 1010101)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: FACP 77DE3040,
0074 (r1 GBT GBTUACPI 42302E31 GBTU 1010101)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: DSDT 77DE30C0,
6550 (r1 GBT GBTUACPI 1000 MSFT 3000000)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: FACS 77DE0000, 0040
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: SSDT 77DE9700,
0544 (r1 PTLTD POWERNOW 1 LTP 1)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: HPET 77DE9C80,
0038 (r1 GBT GBTUACPI 42302E31 GBTU 98)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: MCFG 77DE9CC0,
003C (r1 GBT GBTUACPI 42302E31 GBTU 1010101)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: APIC 77DE9640,
0084 (r1 GBT GBTUACPI 42302E31 GBTU 1010101)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Scanning NUMA
topology in Northbridge 24
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] No NUMA configuration found
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Faking a node at
0000000000000000-0000000077de0000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Bootmem setup node 0
0000000000000000-0000000077de0000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] NODE_DATA
[0000000000001000 - 0000000000005fff]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] bootmap
[000000000000a000 - 0000000000018fbf] pages f
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] (6 early
reservations) ==> bootmem [0000000000 - 0077de0000]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] #0 [0000000000 -
0000001000] BIOS data page ==> [0000000000 - 0000001000]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] #1 [0000006000 -
0000008000] TRAMPOLINE ==> [0000006000 - 0000008000]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] #2 [0000200000 -
00008b8f9c] TEXT DATA BSS ==> [0000200000 - 00008b8f9c]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] #3 [003771b000 -
0037fef549] RAMDISK ==> [003771b000 - 0037fef549]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] #4 [000009f800 -
0000100000] BIOS reserved ==> [000009f800 - 0000100000]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] #5 [0000008000 -
000000a000] PGTABLE ==> [0000008000 - 000000a000]
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] found SMP MP-table
at [ffff8800000f5840] 000f5840
Oct 30 09:59:18 rechenplan kernel: [ 0.000000]
[ffffe20000000000-ffffe20001dffff] PMD ->
```

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```
[ffff880001200000-ffff880002ffffff] on node 0
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Zone PFN ranges:
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] DMA
0x00000000 -> 0x00001000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] DMA32
0x00001000 -> 0x00100000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Normal
0x00100000 -> 0x00100000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Movable zone start
PFN for each node
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] early_node_map[2]
active PFN ranges
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] 0: 0x00000000 ->
0x0000009f
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] 0: 0x00000100 ->
0x00077de0
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] On node 0 totalpages: 490879
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] DMA zone: 2112
pages, LIFO batch:0
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] DMA32 zone: 479272
pages, LIFO batch:31
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: PM-Timer IO Port: 0x4008
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: Local APIC
address 0xfe00000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC
(acpi_id[0x00] lapic_id[0x00] enabled)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC
(acpi_id[0x01] lapic_id[0x01] enabled)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC
(acpi_id[0x02] lapic_id[0x02] enabled)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC
(acpi_id[0x03] lapic_id[0x03] enabled)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC_NMI
(acpi_id[0x00] dfl dfl lint[0x1])
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC_NMI
(acpi_id[0x01] dfl dfl lint[0x1])
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC_NMI
(acpi_id[0x02] dfl dfl lint[0x1])
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: LAPIC_NMI
(acpi_id[0x03] dfl dfl lint[0x1])
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: IOAPIC
(id[0x02] address[0xfec00000] gsi_base[0])
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] IOAPIC[0]: apic_id
2, version 0, address 0xfec00000, GSI 0-23
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: INT_SRC_OVR
(bus 0 bus_irq 0 global_irq 2 dfl dfl)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: INT_SRC_OVR
(bus 0 bus_irq 9 global_irq 9 low level)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: IRQ0 used by override.
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: IRQ2 used by override.
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: IRQ9 used by override.
```

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```
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Setting APIC routing to flat
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] ACPI: HPET id:
0x10b9a201 base: 0xfed00000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Using ACPI (MADT)
for SMP configuration information
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] SMP: Allowing 4
CPUs, 0 hotplug CPUs
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] PM: Registered
nosave memory: 00000000009f000 - 00000000000a0000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] PM: Registered
nosave memory: 0000000000a0000 - 00000000000f0000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] PM: Registered
nosave memory: 0000000000f0000 - 0000000000100000
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Allocating PCI
resources starting at 78000000 (gap: 77e00000:68200000)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] PERCPU: Allocating
64928 bytes of per cpu data
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] NR_CPUS: 64,
nr_cpu_ids: 4, nr_node_ids 1
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Built 1 zonelists in
Node order, mobility grouping on. Total pages: 481384
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Policy zone: DMA32
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Kernel command line:
root=/dev/md0 ro
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Initializing CPU#0
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] PID hash table
entries: 4096 (order: 12, 32768 bytes)
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] TSC: PIT calibration
confirmed by PMTIMER.
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] TSC: using PMTIMER
calibration value
Oct 30 09:59:18 rechenplan kernel: [ 0.000000] Detected 2004.258
MHz processor.
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Console: colour VGA+ 80x25
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] console [tty0] enabled
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Checking aperture...
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] No AGP bridge found
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Node 0: aperture @
5086000000 size 32 MB
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Aperture beyond 4GB. Ignoring.
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Memory:
1916440k/1963904k available (3112k kernel code, 47076k reserved, 1575k
data, 536k init)
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPA: page pool
initialized 1 of 1 pages preallocated
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] SLUB: Genslabs=13,
HWalign=64, Order=0-3, MinObjects=0, CPUs=4, Nodes=1
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] hpet clockevent registered
Oct 30 09:59:18 rechenplan kernel: [ 0.004007] Calibrating delay
loop (skipped), value calculated using timer frequency.. 4008.51
BogoMIPS (lpj=8017020)
```

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Oct 30 09:59:18 rechenplan kernel: [0.004092] Security Framework initialized
Oct 30 09:59:18 rechenplan kernel: [0.004129] SELinux: Disabled at boot.
Oct 30 09:59:18 rechenplan kernel: [0.004172] AppArmor: AppArmor initialized
Oct 30 09:59:18 rechenplan kernel: [0.004386] Dentry cache hash
table entries: 262144 (order: 9, 2097152 bytes)
Oct 30 09:59:18 rechenplan kernel: [0.005237] Inode-cache hash
table entries: 131072 (order: 8, 1048576 bytes)
Oct 30 09:59:18 rechenplan kernel: [0.005616] Mount-cache hash
table entries: 256
Oct 30 09:59:18 rechenplan kernel: [0.005793] Initializing cgroup subsys ns
Oct 30 09:59:18 rechenplan kernel: [0.005827] Initializing cgroup
subsys cpuacct
Oct 30 09:59:18 rechenplan kernel: [0.005861] Initializing cgroup
subsys memory
Oct 30 09:59:18 rechenplan kernel: [0.005905] CPU: L1 I Cache: 64K
(64 bytes/line), D cache 64K (64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [0.005939] CPU: L2 Cache: 512K
(64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [0.005973] CPU 0/0 -> Node 0
Oct 30 09:59:18 rechenplan kernel: [0.006006] tseg: 0077e00000
Oct 30 09:59:18 rechenplan kernel: [0.006008] CPU: Physical Processor ID: 0
Oct 30 09:59:18 rechenplan kernel: [0.006040] CPU: Processor Core ID: 0
Oct 30 09:59:18 rechenplan kernel: [0.006078] using C1E aware idle routine
Oct 30 09:59:18 rechenplan kernel: [0.007533] ACPI: Core revision 20080609
Oct 30 09:59:18 rechenplan kernel: [0.009676] ACPI: Checking
initramfs for custom DSDT
Oct 30 09:59:18 rechenplan kernel: [0.356633] ..TIMER: vector=0x30
apic1=0 pin1=2 apic2=-1 pin2=-1
Oct 30 09:59:18 rechenplan kernel: [0.397509] CPU0: AMD Phenom(tm)
9350e Quad-Core Processor stepping 03
Oct 30 09:59:18 rechenplan kernel: [0.397600] Using local APIC
timer interrupts.
Oct 30 09:59:18 rechenplan kernel: [0.400026] APIC timer
calibration result 12526611
Oct 30 09:59:18 rechenplan kernel: [0.400028] Detected 12.526 MHz
APIC timer.
Oct 30 09:59:18 rechenplan kernel: [0.400181] Booting processor 1/1 ip 6000
Oct 30 09:59:18 rechenplan kernel: [0.004000] Initializing CPU#1
Oct 30 09:59:18 rechenplan kernel: [0.004000] Calibrating delay
using timer specific routine.. 4008.74 BogoMIPS (lpj=8017489)
Oct 30 09:59:18 rechenplan kernel: [0.004000] CPU: L1 I Cache: 64K
(64 bytes/line), D cache 64K (64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [0.004000] CPU: L2 Cache: 512K
(64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [0.004000] CPU 1/1 -> Node 0
Oct 30 09:59:18 rechenplan kernel: [0.004000] CPU: Physical Processor ID: 0
Oct 30 09:59:18 rechenplan kernel: [0.004000] CPU: Processor Core ID: 2
Oct 30 09:59:18 rechenplan kernel: [0.488398] CPU1: AMD Phenom(tm)
9350e Quad-Core Processor stepping 03
Oct 30 09:59:18 rechenplan kernel: [0.488713] checking TSC
synchronization [CPU#0 -> CPU#1]: passed.

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```
Oct 30 09:59:18 rechenplan kernel: [ 0.492108] Booting processor 2/2 ip 6000
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Initializing CPU#2
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Calibrating delay
using timer specific routine.. 4008.62 BogoMIPS (lpj=8017247)
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: L1 I Cache: 64K
(64 bytes/line), D cache 64K (64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: L2 Cache: 512K
(64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU 2/2 -> Node 0
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: Physical Processor ID: 0
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: Processor Core ID: 1
Oct 30 09:59:18 rechenplan kernel: [ 0.580406] CPU2: AMD Phenom(tm)
9350e Quad-Core Processor stepping 03
Oct 30 09:59:18 rechenplan kernel: [ 0.580720] checking TSC
synchronization [CPU#0 -> CPU#2]: passed.
Oct 30 09:59:18 rechenplan kernel: [ 0.584110] Booting processor 3/3 ip 6000
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Initializing CPU#3
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] Calibrating delay
using timer specific routine.. 4008.63 BogoMIPS (lpj=8017277)
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: L1 I Cache: 64K
(64 bytes/line), D cache 64K (64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: L2 Cache: 512K
(64 bytes/line)
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU 3/3 -> Node 0
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: Physical Processor ID: 0
Oct 30 09:59:18 rechenplan kernel: [ 0.004000] CPU: Processor Core ID: 3
Oct 30 09:59:18 rechenplan kernel: [ 0.672418] CPU3: AMD Phenom(tm)
9350e Quad-Core Processor stepping 03
Oct 30 09:59:18 rechenplan kernel: [ 0.672733] checking TSC
synchronization [CPU#0 -> CPU#3]: passed.
Oct 30 09:59:18 rechenplan kernel: [ 0.676054] Brought up 4 CPUs
Oct 30 09:59:18 rechenplan kernel: [ 0.676087] Total of 4
processors activated (16034.51 BogoMIPS).
Oct 30 09:59:18 rechenplan kernel: [ 0.676207] CPU0 attaching sched-domain:
Oct 30 09:59:18 rechenplan kernel: [ 0.676209] domain 0: span 0-3 level CPU
Oct 30 09:59:18 rechenplan kernel: [ 0.676211] groups: 0 1 2 3
Oct 30 09:59:18 rechenplan kernel: [ 0.676216] domain 1: span 0-3
level NODE
Oct 30 09:59:18 rechenplan kernel: [ 0.676218] groups: 0-3
Oct 30 09:59:18 rechenplan kernel: [ 0.676222] CPU1 attaching sched-domain:
Oct 30 09:59:18 rechenplan kernel: [ 0.676224] domain 0: span 0-3 level CPU
Oct 30 09:59:18 rechenplan kernel: [ 0.676225] groups: 1 2 3 0
Oct 30 09:59:18 rechenplan kernel: [ 0.676229] domain 1: span 0-3
level NODE
Oct 30 09:59:18 rechenplan kernel: [ 0.676231] groups: 0-3
Oct 30 09:59:18 rechenplan kernel: [ 0.676234] CPU2 attaching sched-domain:
Oct 30 09:59:18 rechenplan kernel: [ 0.676235] domain 0: span 0-3 level CPU
Oct 30 09:59:18 rechenplan kernel: [ 0.676237] groups: 2 3 0 1
Oct 30 09:59:18 rechenplan kernel: [ 0.676240] domain 1: span 0-3
level NODE
Oct 30 09:59:18 rechenplan kernel: [ 0.676241] groups: 0-3
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RAID ate my PCIe-PCI bridge's MMIO address space (?)

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Oct 30 09:59:18 rechenplan kernel: [0.676244] CPU3 attaching sched-domain:
Oct 30 09:59:18 rechenplan kernel: [0.676246] domain 0: span 0-3 level CPU
Oct 30 09:59:18 rechenplan kernel: [0.676247] groups: 3 0 1 2
Oct 30 09:59:18 rechenplan kernel: [0.676250] domain 1: span 0-3
level NODE
Oct 30 09:59:18 rechenplan kernel: [0.676252] groups: 0-3
Oct 30 09:59:18 rechenplan kernel: [0.676376] net_namespace: 1552 bytes
Oct 30 09:59:18 rechenplan kernel: [0.676376] Booting
paravirtualized kernel on bare hardware
Oct 30 09:59:18 rechenplan kernel: [0.676376] Time: 9:58:44 Date: 10/30/08
Oct 30 09:59:18 rechenplan kernel: [0.676425] NET: Registered
protocol family 16
Oct 30 09:59:18 rechenplan kernel: [0.676475] node 0 link 0: io
port [c000, ffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] TOM:
0000000080000000 aka 2048M
Oct 30 09:59:18 rechenplan kernel: [0.676475] Fam 10h mmconf
[e0000000, e00fffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] node 0 link 0: mmio
[a0000, bffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] node 0 link 0: mmio
[80000000, fe02ffff] ==> [80000000, dffffff] and [e0100000, fe02ffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] node 0 link 0: mmio
[e0000000, effffff] ==> [e0100000, effffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] bus: [00,03] on node 0 link 0
Oct 30 09:59:18 rechenplan kernel: [0.676475] bus: 00 index 0 io
port: [0, ffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] bus: 00 index 1
mmio: [a0000, bffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] bus: 00 index 2
mmio: [80000000, dffffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] bus: 00 index 3
mmio: [e0100000, fcffffff]
Oct 30 09:59:18 rechenplan kernel: [0.676475] ACPI: bus type pci registered
Oct 30 09:59:18 rechenplan kernel: [0.676475] PCI: MCFG
configuration 0: base e0000000 segment 0 buses 0 - 255
Oct 30 09:59:18 rechenplan kernel: [0.676475] PCI: MCFG area at
e0000000 reserved in E820
Oct 30 09:59:18 rechenplan kernel: [0.690506] PCI: Using MMCONFIG
at e0000000 - effffff
Oct 30 09:59:18 rechenplan kernel: [0.690540] PCI: Using
configuration type 1 for base access
Oct 30 09:59:18 rechenplan kernel: [0.692355] ACPI: EC: Look up EC in DSDT
Oct 30 09:59:18 rechenplan kernel: [0.702136] ACPI: Interpreter enabled
Oct 30 09:59:18 rechenplan kernel: [0.702175] ACPI: (supports S0 S3 S4 S5)
Oct 30 09:59:18 rechenplan kernel: [0.702334] ACPI: Using IOAPIC
for interrupt routing
Oct 30 09:59:18 rechenplan kernel: [0.708374] ACPI: PCI Root
Bridge [PCI0] (0000:00)
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:00.0
reg 1c 64bit mmio: [e0000000, fffffff]

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Oct 30 09:59:18 rechenplan kernel: [0.708374] pci 0000:00:0a.0:
PME# supported from D0 D3hot D3cold
Oct 30 09:59:18 rechenplan kernel: [0.708374] pci 0000:00:0a.0:
PME# disabled
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:11.0
reg 10 io port: [ff00, ff07]
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:11.0
reg 14 io port: [fe00, fe03]
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:11.0
reg 18 io port: [fd00, fd07]
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:11.0
reg 1c io port: [fc00, fc03]
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:11.0
reg 20 io port: [fb00, fb0f]
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:11.0
reg 24 32bit mmio: [fe02f000, fe02f3ff]
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:12.0
reg 10 32bit mmio: [fe02e000, fe02efff]
Oct 30 09:59:18 rechenplan kernel: [0.708374] PCI: 0000:00:12.1
reg 10 32bit mmio: [fe02d000, fe02dff]
Oct 30 09:59:18 rechenplan kernel: [0.708441] PCI: 0000:00:12.2
reg 10 32bit mmio: [fe02c000, fe02c0ff]
Oct 30 09:59:18 rechenplan kernel: [0.708485] pci 0000:00:12.2: supports D1
Oct 30 09:59:18 rechenplan kernel: [0.708487] pci 0000:00:12.2: supports D2
Oct 30 09:59:18 rechenplan kernel: [0.708488] pci 0000:00:12.2:
PME# supported from D0 D1 D2 D3hot
Oct 30 09:59:18 rechenplan kernel: [0.708524] pci 0000:00:12.2:
PME# disabled
Oct 30 09:59:18 rechenplan kernel: [0.708578] PCI: 0000:00:13.0
reg 10 32bit mmio: [fe02b000, fe02bfff]
Oct 30 09:59:18 rechenplan kernel: [0.708628] PCI: 0000:00:13.1
reg 10 32bit mmio: [fe02a000, fe02aff]
Oct 30 09:59:18 rechenplan kernel: [0.708700] PCI: 0000:00:13.2
reg 10 32bit mmio: [fe029000, fe0290ff]
Oct 30 09:59:18 rechenplan kernel: [0.708744] pci 0000:00:13.2: supports D1
Oct 30 09:59:18 rechenplan kernel: [0.708746] pci 0000:00:13.2: supports D2
Oct 30 09:59:18 rechenplan kernel: [0.708747] pci 0000:00:13.2:
PME# supported from D0 D1 D2 D3hot
Oct 30 09:59:18 rechenplan kernel: [0.708783] pci 0000:00:13.2:
PME# disabled
Oct 30 09:59:18 rechenplan kernel: [0.708915] PCI: 0000:00:14.1
reg 10 io port: [0, 7]
Oct 30 09:59:18 rechenplan kernel: [0.708921] PCI: 0000:00:14.1
reg 14 io port: [0, 3]
Oct 30 09:59:18 rechenplan kernel: [0.708927] PCI: 0000:00:14.1
reg 18 io port: [0, 7]
Oct 30 09:59:18 rechenplan kernel: [0.708934] PCI: 0000:00:14.1
reg 1c io port: [0, 3]
Oct 30 09:59:18 rechenplan kernel: [0.708940] PCI: 0000:00:14.1
reg 20 io port: [fa00, fa0f]
Oct 30 09:59:18 rechenplan kernel: [0.709054] PCI: 0000:00:14.5

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reg 10 32bit mmio: [fe028000, fe028fff]
Oct 30 09:59:18 rechenplan kernel: [0.709185] PCI: 0000:01:05.0
reg 10 32bit mmio: [d8000000, dfffffff]
Oct 30 09:59:18 rechenplan kernel: [0.709189] PCI: 0000:01:05.0
reg 14 io port: [ee00, eeff]
Oct 30 09:59:18 rechenplan kernel: [0.709192] PCI: 0000:01:05.0
reg 18 32bit mmio: [fdee0000, fdeeffff]
Oct 30 09:59:18 rechenplan kernel: [0.709199] PCI: 0000:01:05.0
reg 24 32bit mmio: [fdd00000, fddffffff]
Oct 30 09:59:18 rechenplan kernel: [0.709208] pci 0000:01:05.0: supports D1
Oct 30 09:59:18 rechenplan kernel: [0.709209] pci 0000:01:05.0: supports D2
Oct 30 09:59:18 rechenplan kernel: [0.709223] PCI: 0000:01:05.1
reg 10 32bit mmio: [fdefc000, fdeffffff]
Oct 30 09:59:18 rechenplan kernel: [0.709240] pci 0000:01:05.1: supports D1
Oct 30 09:59:18 rechenplan kernel: [0.709241] pci 0000:01:05.1: supports D2
Oct 30 09:59:18 rechenplan kernel: [0.709278] PCI: bridge
0000:00:01.0 io port: [e000, efff]
Oct 30 09:59:18 rechenplan kernel: [0.709281] PCI: bridge
0000:00:01.0 32bit mmio: [fdd00000, fdeffffff]
Oct 30 09:59:18 rechenplan kernel: [0.709285] PCI: bridge
0000:00:01.0 64bit mmio pref: [d8000000, dfffffff]
Oct 30 09:59:18 rechenplan kernel: [0.709317] PCI: 0000:02:00.0
reg 10 io port: [de00, deff]
Oct 30 09:59:18 rechenplan kernel: [0.709327] PCI: 0000:02:00.0
reg 18 32bit mmio: [fdfff000, fdffffff]
Oct 30 09:59:18 rechenplan kernel: [0.709338] PCI: 0000:02:00.0
reg 20 32bit mmio: [fdfe0000, fdfeffff]
Oct 30 09:59:18 rechenplan kernel: [0.709348] PCI: 0000:02:00.0
reg 30 32bit mmio: [0, ffff]
Oct 30 09:59:18 rechenplan kernel: [0.709369] pci 0000:02:00.0: supports D1
Oct 30 09:59:18 rechenplan kernel: [0.709370] pci 0000:02:00.0: supports D2
Oct 30 09:59:18 rechenplan kernel: [0.709371] pci 0000:02:00.0:
PME# supported from D0 D1 D2 D3hot D3cold
Oct 30 09:59:18 rechenplan kernel: [0.709407] pci 0000:02:00.0:
PME# disabled
Oct 30 09:59:18 rechenplan kernel: [0.709478] PCI: bridge
0000:00:0a.0 io port: [d000, dfff]
Oct 30 09:59:18 rechenplan kernel: [0.709481] PCI: bridge
0000:00:0a.0 32bit mmio: [fda00000, fdafffff]
Oct 30 09:59:18 rechenplan kernel: [0.709484] PCI: bridge
0000:00:0a.0 64bit mmio pref: [fdf00000, fdffffff]
Oct 30 09:59:18 rechenplan kernel: [0.709535] PCI: 0000:03:07.0
reg 10 io port: [cf00, cf1f]
Oct 30 09:59:18 rechenplan kernel: [0.709543] PCI: 0000:03:07.0
reg 14 io port: [ce00, ce7f]
Oct 30 09:59:18 rechenplan kernel: [0.709592] pci 0000:03:07.0: supports D2
Oct 30 09:59:18 rechenplan kernel: [0.709630] pci 0000:00:14.4:
transparent bridge
Oct 30 09:59:18 rechenplan kernel: [0.709665] PCI: bridge
0000:00:14.4 io port: [c000, cfff]
Oct 30 09:59:18 rechenplan kernel: [0.709669] PCI: bridge

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0000:00:14.4 32bit mmio: [fdc00000, fdcfffff]
Oct 30 09:59:18 rechenplan kernel: [0.709673] PCI: bridge
0000:00:14.4 32bit mmio pref: [fdb00000, fdbfffff]
Oct 30 09:59:18 rechenplan kernel: [0.709689] ACPI: PCI Interrupt
Routing Table [_SB_.PCI0._PRT]
Oct 30 09:59:18 rechenplan kernel: [0.710205] ACPI: PCI Interrupt
Routing Table [_SB_.PCI0.P2P_.PRT]
Oct 30 09:59:18 rechenplan kernel: [0.710404] ACPI: PCI Interrupt
Routing Table [_SB_.PCI0.PCEA_.PRT]
Oct 30 09:59:18 rechenplan kernel: [0.710538] ACPI: PCI Interrupt
Routing Table [_SB_.PCI0.AGP_.PRT]
Oct 30 09:59:18 rechenplan kernel: [0.741546] ACPI: PCI Interrupt
Link [LNKA] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.741546] ACPI: PCI Interrupt
Link [LNKB] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.741546] ACPI: PCI Interrupt
Link [LNKC] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.744400] ACPI: PCI Interrupt
Link [LNKD] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.744887] ACPI: PCI Interrupt
Link [LNKE] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.745380] ACPI: PCI Interrupt
Link [LNKF] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.746354] ACPI: PCI Interrupt
Link [LNK0] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.746845] ACPI: PCI Interrupt
Link [LNK1] (IRQs 3 4 5 6 7 10 11) *0, disabled.
Oct 30 09:59:18 rechenplan kernel: [0.747256] Linux Plug and Play
Support v0.97 (c) Adam Belay
Oct 30 09:59:18 rechenplan kernel: [0.747256] pnp: PnP ACPI init
Oct 30 09:59:18 rechenplan kernel: [0.747256] ACPI: bus type pnp registered
Oct 30 09:59:18 rechenplan kernel: [0.749043] pnp 00:09: mem
resource (0xe0000000-0xffffffff) overlaps 0000:00:00.0 BAR 3
(0xe0000000-0xffffffff), disabling
Oct 30 09:59:18 rechenplan kernel: [0.749043] pnp 00:0a: mem
resource (0xffff0000-0xffffffff) overlaps 0000:00:00.0 BAR 3
(0xe0000000-0xffffffff), disabling
Oct 30 09:59:18 rechenplan kernel: [0.749043] pnp 00:0a: mem
resource (0xfec00000-0xfec00fff) overlaps 0000:00:00.0 BAR 3
(0xe0000000-0xffffffff), disabling
Oct 30 09:59:18 rechenplan kernel: [0.749043] pnp 00:0a: mem
resource (0xfe000000-0xfe00fff) overlaps 0000:00:00.0 BAR 3
(0xe0000000-0xffffffff), disabling
Oct 30 09:59:18 rechenplan kernel: [0.749043] pnp 00:0a: mem
resource (0xff800000-0xffefffff) overlaps 0000:00:00.0 BAR 3
(0xe0000000-0xffffffff), disabling
Oct 30 09:59:18 rechenplan kernel: [0.749043] pnp: PnP ACPI: found
11 devices
Oct 30 09:59:18 rechenplan kernel: [0.749043] ACPI: ACPI bus type
pnp unregistered
Oct 30 09:59:18 rechenplan kernel: [0.749043] PCI: Using ACPI for

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IRQ routing

Oct 30 09:59:18 rechenplan kernel: [0.749043] pci 0000:00:00.0:
BAR 3: can't allocate resource
Oct 30 09:59:18 rechenplan kernel: [0.768040] NET: Registered
protocol family 8
Oct 30 09:59:18 rechenplan kernel: [0.768073] NET: Registered
protocol family 20
Oct 30 09:59:18 rechenplan kernel: [0.768117] NetLabel: Initializing
Oct 30 09:59:18 rechenplan kernel: [0.768117] NetLabel: domain
hash size = 128
Oct 30 09:59:18 rechenplan kernel: [0.768117] NetLabel: protocols
= UNLABELED CIPSOv4
Oct 30 09:59:18 rechenplan kernel: [0.768141] NetLabel: unlabeled
traffic allowed by default
Oct 30 09:59:18 rechenplan kernel: [0.768236] hpet0: at MMIO
0xfed00000, IRQs 2, 8, 0, 0
Oct 30 09:59:18 rechenplan kernel: [0.768310] hpet0: 4 32-bit
timers, 14318180 Hz
Oct 30 09:59:18 rechenplan kernel: [0.772041] Switched to high
resolution mode on CPU 0
Oct 30 09:59:18 rechenplan kernel: [0.772754] tracer: 1286 pages
allocated for 65536 entries of 80 bytes
Oct 30 09:59:18 rechenplan kernel: [0.772788] actual entries 65586
Oct 30 09:59:18 rechenplan kernel: [0.772804] Switched to high
resolution mode on CPU 1
Oct 30 09:59:18 rechenplan kernel: [0.772812] Switched to high
resolution mode on CPU 2
Oct 30 09:59:18 rechenplan kernel: [0.772824] Switched to high
resolution mode on CPU 3
Oct 30 09:59:18 rechenplan kernel: [0.772910] AppArmor: AppArmor
Filesystem Enabled
Oct 30 09:59:18 rechenplan kernel: [0.772961] ACPI: RTC can wake from S4
Oct 30 09:59:18 rechenplan kernel: [0.792020] system 00:01: ioport
range 0x4d0-0x4d1 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792055] system 00:01: ioport
range 0x220-0x225 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792089] system 00:01: ioport
range 0x290-0x294 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792125] system 00:02: ioport
range 0x4100-0x411f has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792160] system 00:02: ioport
range 0x228-0x22f has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792194] system 00:02: ioport
range 0x238-0x23f has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792228] system 00:02: ioport
range 0x40b-0x40b has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792262] system 00:02: ioport
range 0x4d6-0x4d6 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792296] system 00:02: ioport
range 0xc00-0xc01 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792330] system 00:02: ioport

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range 0xc14-0xc14 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792364] system 00:02: ioport
range 0xc50-0xc52 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792398] system 00:02: ioport
range 0xc6c-0xc6d has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792432] system 00:02: ioport
range 0xc6f-0xc6f has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792466] system 00:02: ioport
range 0xcd0-0xcd1 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792500] system 00:02: ioport
range 0xcd2-0xcd3 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792534] system 00:02: ioport
range 0xcd4-0xcdf has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792567] system 00:02: ioport
range 0x4000-0x40fe has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792601] system 00:02: ioport
range 0x4210-0x4217 has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792636] system 00:02: ioport
range 0xb00-0xb0f has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792670] system 00:02: ioport
range 0xb10-0xb1f has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792704] system 00:02: ioport
range 0xb20-0xb3f has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792751] system 00:0a: iomem
range 0xd1a00-0xd3fff has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.792785] system 00:0a: iomem
range 0xf0000-0xf7fff could not be reserved
Oct 30 09:59:18 rechenplan kernel: [0.792820] system 00:0a: iomem
range 0xf8000-0xfbfff could not be reserved
Oct 30 09:59:18 rechenplan kernel: [0.792854] system 00:0a: iomem
range 0xfc000-0xfffff could not be reserved
Oct 30 09:59:18 rechenplan kernel: [0.792888] system 00:0a: iomem
range 0x77de0000-0x77dfffff could not be reserved
Oct 30 09:59:18 rechenplan kernel: [0.792925] system 00:0a: iomem
range 0x0-0x9fffff could not be reserved
Oct 30 09:59:18 rechenplan kernel: [0.792959] system 00:0a: iomem
range 0x100000-0x77ddfffff could not be reserved
Oct 30 09:59:18 rechenplan kernel: [0.792996] system 00:0a: iomem
range 0x77ef0000-0x7fefffff has been reserved
Oct 30 09:59:18 rechenplan kernel: [0.798143] pci 0000:00:01.0:
PCI bridge, secondary bus 0000:01
Oct 30 09:59:18 rechenplan kernel: [0.798178] pci 0000:00:01.0:
IO window: 0xe000-0xefff
Oct 30 09:59:18 rechenplan kernel: [0.798213] pci 0000:00:01.0:
MEM window: 0xfdd00000-0xfdefffff
Oct 30 09:59:18 rechenplan kernel: [0.798247] pci 0000:00:01.0:
PREFETCH window: 0x000000d8000000-0x000000dffffff
Oct 30 09:59:18 rechenplan kernel: [0.798287] pci 0000:00:0a.0:
PCI bridge, secondary bus 0000:02
Oct 30 09:59:18 rechenplan kernel: [0.798321] pci 0000:00:0a.0:
IO window: 0xd000-0xdfff

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Oct 30 09:59:18 rechenplan kernel: [0.798355] pci 0000:00:0a.0:
MEM window: 0xfda00000-0xfdafffff
Oct 30 09:59:18 rechenplan kernel: [0.798390] pci 0000:00:0a.0:
PREFETCH window: 0x000000fdf00000-0x000000fdffffff
Oct 30 09:59:18 rechenplan kernel: [0.798428] pci 0000:00:14.4:
PCI bridge, secondary bus 0000:03
Oct 30 09:59:18 rechenplan kernel: [0.798463] pci 0000:00:14.4:
IO window: 0xc000-0xcfff
Oct 30 09:59:18 rechenplan kernel: [0.798500] pci 0000:00:14.4:
MEM window: 0xfdc00000-0xfdcfffff
Oct 30 09:59:18 rechenplan kernel: [0.798536] pci 0000:00:14.4:
PREFETCH window: 0x000000fdb00000-0x000000fdbffffff
Oct 30 09:59:18 rechenplan kernel: [0.798591] pci 0000:00:0a.0:
PCI INT A -> GSI 18 (level, low) -> IRQ 18
Oct 30 09:59:18 rechenplan kernel: [0.798626] pci 0000:00:0a.0:
setting latency timer to 64
Oct 30 09:59:18 rechenplan kernel: [0.798633] bus: 00 index 0 io
port: [0, ffff]
Oct 30 09:59:18 rechenplan kernel: [0.798666] bus: 00 index 1
mmio: [0, ffffffff]
Oct 30 09:59:18 rechenplan kernel: [0.798699] bus: 01 index 0 io
port: [e000, efff]
Oct 30 09:59:18 rechenplan kernel: [0.798732] bus: 01 index 1
mmio: [fdd00000, fdefffff]
Oct 30 09:59:18 rechenplan kernel: [0.798765] bus: 01 index 2
mmio: [d8000000, dfffffff]
Oct 30 09:59:18 rechenplan kernel: [0.798798] bus: 01 index 3 mmio: [0, 0]
Oct 30 09:59:18 rechenplan kernel: [0.798831] bus: 02 index 0 io
port: [d000, dfff]
Oct 30 09:59:18 rechenplan kernel: [0.798863] bus: 02 index 1
mmio: [fda00000, fdafffff]
Oct 30 09:59:18 rechenplan kernel: [0.798896] bus: 02 index 2
mmio: [fdf00000, fdffffff]
Oct 30 09:59:18 rechenplan kernel: [0.798930] bus: 02 index 3 mmio: [0, 0]
Oct 30 09:59:18 rechenplan kernel: [0.798962] bus: 03 index 0 io
port: [c000, cfff]
Oct 30 09:59:18 rechenplan kernel: [0.798995] bus: 03 index 1
mmio: [fdc00000, fdcfffff]
Oct 30 09:59:18 rechenplan kernel: [0.799028] bus: 03 index 2
mmio: [fdb00000, fdbfffff]
Oct 30 09:59:18 rechenplan kernel: [0.799061] bus: 03 index 3 io
port: [0, ffff]
Oct 30 09:59:18 rechenplan kernel: [0.799093] bus: 03 index 4
mmio: [0, ffffffff]
Oct 30 09:59:18 rechenplan kernel: [0.799136] NET: Registered
protocol family 2
Oct 30 09:59:18 rechenplan kernel: [0.840125] IP route cache hash
table entries: 65536 (order: 7, 524288 bytes)
Oct 30 09:59:18 rechenplan kernel: [0.840941] TCP established hash
table entries: 262144 (order: 10, 4194304 bytes)
Oct 30 09:59:18 rechenplan kernel: [0.842401] TCP bind hash table

RAID ate my PCIe-PCI bridge's MMIO address space (?)

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entries: 65536 (order: 8, 1048576 bytes)
Oct 30 09:59:18 rechenplan kernel: [0.842771] TCP: Hash tables configured (established 262144 bind 65536)
Oct 30 09:59:18 rechenplan kernel: [0.842806] TCP reno registered
Oct 30 09:59:18 rechenplan kernel: [0.852108] NET: Registered protocol family 1
Oct 30 09:59:18 rechenplan kernel: [0.852256] checking if image is initramfs... it is
Oct 30 09:59:18 rechenplan kernel: [1.554403] Freeing initrd memory: 9041k freed
Oct 30 09:59:18 rechenplan kernel: [1.559325] audit: initializing netlink socket (disabled)
Oct 30 09:59:18 rechenplan kernel: [1.559371] type=2000 audit(1225360724.556:1): initialized
Oct 30 09:59:18 rechenplan kernel: [1.564690] HugeTLB registered 2 MB page size, pre-allocated 0 pages
Oct 30 09:59:18 rechenplan kernel: [1.567424] VFS: Disk quotas dquot_6.5.1
Oct 30 09:59:18 rechenplan kernel: [1.567537] Dquot-cache hash table entries: 512 (order 0, 4096 bytes)
Oct 30 09:59:18 rechenplan kernel: [1.567672] msgmni has been set to 3760
Oct 30 09:59:18 rechenplan kernel: [1.567832] io scheduler noop registered
Oct 30 09:59:18 rechenplan kernel: [1.567865] io scheduler anticipatory registered
Oct 30 09:59:18 rechenplan kernel: [1.567898] io scheduler deadline registered
Oct 30 09:59:18 rechenplan kernel: [1.568063] io scheduler cfq registered (default)
Oct 30 09:59:18 rechenplan kernel: [1.708053] pci 0000:01:05.0: Boot video device
Oct 30 09:59:18 rechenplan kernel: [1.708194] pcieport-driver 0000:00:0a.0: setting latency timer to 64
Oct 30 09:59:18 rechenplan kernel: [1.708215] pcieport-driver 0000:00:0a.0: found MSI capability
Oct 30 09:59:18 rechenplan kernel: [1.708274] pci_express 0000:00:0a.0:pcie00: allocate port service
Oct 30 09:59:18 rechenplan kernel: [1.744417] hpet_resources: 0xfed00000 is busy
Oct 30 09:59:18 rechenplan kernel: [1.744487] Linux agpgart interface v0.103
Oct 30 09:59:18 rechenplan kernel: [1.744526] Serial: 8250/16550 driver4 ports, IRQ sharing enabled
Oct 30 09:59:18 rechenplan kernel: [1.746694] brd: module loaded
Oct 30 09:59:18 rechenplan kernel: [1.746799] input: Macintosh mouse button emulation as /devices/virtual/input/input0
Oct 30 09:59:18 rechenplan kernel: [1.746949] PNP: PS/2 Controller [PNP0303:PS2K] at 0x60,0x64 irq 1
Oct 30 09:59:18 rechenplan kernel: [1.746983] PNP: PS/2 appears to have AUX port disabled, if this is incorrect please boot with i8042.nopnp
Oct 30 09:59:18 rechenplan kernel: [1.747146] serio: i8042 KBD port at 0x60,0x64 irq 1
Oct 30 09:59:18 rechenplan kernel: [1.760135] mice: PS/2 mouse

RAID ate my PCIe-PCI bridge's MMIO address space (?)

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device common for all mice

Oct 30 09:59:18 rechenplan kernel: [1.760298] rtc_cmos 00:05: rtc core: registered rtc_cmos as rtc0

Oct 30 09:59:18 rechenplan kernel: [1.760361] rtc0: alarms up to one month, hpet irqs

Oct 30 09:59:18 rechenplan kernel: [1.760432] cpuidle: using governor ladder

Oct 30 09:59:18 rechenplan kernel: [1.760466] cpuidle: using governor menu

Oct 30 09:59:18 rechenplan kernel: [1.760876] TCP cubic registered

Oct 30 09:59:18 rechenplan kernel: [1.761116] registered taskstats version 1

Oct 30 09:59:18 rechenplan kernel: [1.761274] Magic number: 12:674:981

Oct 30 09:59:18 rechenplan kernel: [1.761314] tty ttyc8: hash matches

Oct 30 09:59:18 rechenplan kernel: [1.761445] rtc_cmos 00:05: setting system clock to 2008-10-30 09:58:45 UTC (1225360725)

Oct 30 09:59:18 rechenplan kernel: [1.761482] BIOS EDD facility v0.16 2004-Jun-25, 0 devices found

Oct 30 09:59:18 rechenplan kernel: [1.761516] EDD information not available.

Oct 30 09:59:18 rechenplan kernel: [1.761579] Freeing unused kernel memory: 536k freed

Oct 30 09:59:18 rechenplan kernel: [1.761807] Write protecting the kernel read-only data: 4348k

Oct 30 09:59:18 rechenplan kernel: [1.778231] input: AT Translated Set 2 keyboard as /devices/platform/i8042/serio0/input/input1

Oct 30 09:59:18 rechenplan kernel: [1.854573] fuse init (API version 7.9)

Oct 30 09:59:18 rechenplan kernel: [1.874605] processor ACPI0007:00: registered as cooling_device0

Oct 30 09:59:18 rechenplan kernel: [1.874704] processor ACPI0007:01: registered as cooling_device1

Oct 30 09:59:18 rechenplan kernel: [1.874796] processor ACPI0007:02: registered as cooling_device2

Oct 30 09:59:18 rechenplan kernel: [1.874889] processor ACPI0007:03: registered as cooling_device3

Oct 30 09:59:18 rechenplan kernel: [1.892667] md: linear personality registered for level -1

Oct 30 09:59:18 rechenplan kernel: [1.896718] md: multipath personality registered for level -4

Oct 30 09:59:18 rechenplan kernel: [1.900389] md: raid0 personality registered for level 0

Oct 30 09:59:18 rechenplan kernel: [1.905358] md: raid1 personality registered for level 1

Oct 30 09:59:18 rechenplan kernel: [1.908731] xor: automatically using best checksumming function: generic_sse

Oct 30 09:59:18 rechenplan kernel: [1.925004] generic_sse: 8234.000 MB/sec

Oct 30 09:59:18 rechenplan kernel: [1.925037] xor: using function: generic_sse (8234.000 MB/sec)

Oct 30 09:59:18 rechenplan kernel: [1.926305] async_tx: api initialized (async)

Oct 30 09:59:18 rechenplan kernel: [1.997011] raid6: int64x1 2098 MB/s

Oct 30 09:59:18 rechenplan kernel: [2.065020] raid6: int64x2 2791 MB/s

Oct 30 09:59:18 rechenplan kernel: [2.133032] raid6: int64x4 2409 MB/s

Oct 30 09:59:18 rechenplan kernel: [2.201041] raid6: int64x8 1825 MB/s

RAID ate my PCIe-PCI bridge's MMIO address space (?)

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Oct 30 09:59:18 rechenplan kernel: [2.269012] raid6: sse2x1 2884 MB/s
Oct 30 09:59:18 rechenplan kernel: [2.337002] raid6: sse2x2 4736 MB/s
Oct 30 09:59:18 rechenplan kernel: [2.405005] raid6: sse2x4 5703 MB/s
Oct 30 09:59:18 rechenplan kernel: [2.405037] raid6: using
algorithm sse2x4 (5703 MB/s)
Oct 30 09:59:18 rechenplan kernel: [2.405072] md: raid6
personality registered for level 6
Oct 30 09:59:18 rechenplan kernel: [2.405105] md: raid5
personality registered for level 5
Oct 30 09:59:18 rechenplan kernel: [2.405138] md: raid4
personality registered for level 4
Oct 30 09:59:18 rechenplan kernel: [2.425850] md: raid10
personality registered for level 10
Oct 30 09:59:18 rechenplan kernel: [2.573052] r8169 Gigabit
Ethernet driver 2.3LK-NAPI loaded
Oct 30 09:59:18 rechenplan kernel: [2.573108] r8169 0000:02:00.0:
PCI INT A -> GSI 18 (level, low) -> IRQ 18
Oct 30 09:59:18 rechenplan kernel: [2.573158] r8169 0000:02:00.0:
setting latency timer to 64
Oct 30 09:59:18 rechenplan kernel: [2.573452] eth0: RTL8168c/8111c
at 0xffffc2000032a000, 00:1f:d0:56:5e:a0, XID 3c4000c0 IRQ 2302
Oct 30 09:59:18 rechenplan kernel: [2.589619] usbcore: registered
new interface driver usbfs
Oct 30 09:59:18 rechenplan kernel: [2.589907] usbcore: registered
new interface driver hub
Oct 30 09:59:18 rechenplan kernel: [2.589982] usbcore: registered
new device driver usb
Oct 30 09:59:18 rechenplan kernel: [2.591081] No dock devices found.
Oct 30 09:59:18 rechenplan kernel: [2.592723] ohci_hcd: 2006
August 04 USB 1.1 'Open' Host Controller (OHCI) Driver
Oct 30 09:59:18 rechenplan kernel: [2.592761] ohci_hcd
0000:00:12.0: PCI INT A -> GSI 16 (level, low) -> IRQ 16
Oct 30 09:59:18 rechenplan kernel: [2.592811] ohci_hcd
0000:00:12.0: OHCI Host Controller
Oct 30 09:59:18 rechenplan kernel: [2.592890] ohci_hcd
0000:00:12.0: new USB bus registered, assigned bus number 1
Oct 30 09:59:18 rechenplan kernel: [2.592958] ohci_hcd
0000:00:12.0: irq 16, io mem 0xfe02e000
Oct 30 09:59:18 rechenplan kernel: [2.604234] SCSI subsystem initialized
Oct 30 09:59:18 rechenplan kernel: [2.623793] libata version 3.00 loaded.
Oct 30 09:59:18 rechenplan kernel: [2.652185] usb usb1:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [2.652247] hub 1-0:1.0: USB hub found
Oct 30 09:59:18 rechenplan kernel: [2.652288] hub 1-0:1.0: 3 ports detected
Oct 30 09:59:18 rechenplan kernel: [2.860253] ohci_hcd
0000:00:12.1: PCI INT A -> GSI 16 (level, low) -> IRQ 16
Oct 30 09:59:18 rechenplan kernel: [2.860305] ohci_hcd
0000:00:12.1: OHCI Host Controller
Oct 30 09:59:18 rechenplan kernel: [2.860364] ohci_hcd
0000:00:12.1: new USB bus registered, assigned bus number 2
Oct 30 09:59:18 rechenplan kernel: [2.860417] ohci_hcd

RAID ate my PCIe-PCI bridge's MMIO address space (?)

```
0000:00:12.1: irq 16, io mem 0xfe02d000
Oct 30 09:59:18 rechenplan kernel: [ 2.920193] usb usb2:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [ 2.920255] hub 2-0:1.0: USB hub found
Oct 30 09:59:18 rechenplan kernel: [ 2.920296] hub 2-0:1.0: 3 ports detected
Oct 30 09:59:18 rechenplan kernel: [ 3.000025] usb 1-2: new low
speed USB device using ohci_hcd and address 2
Oct 30 09:59:18 rechenplan kernel: [ 3.030352] ohci_hcd
0000:00:13.0: PCI INT A -> GSI 18 (level, low) -> IRQ 18
Oct 30 09:59:18 rechenplan kernel: [ 3.030402] ohci_hcd
0000:00:13.0: OHCI Host Controller
Oct 30 09:59:18 rechenplan kernel: [ 3.030457] ohci_hcd
0000:00:13.0: new USB bus registered, assigned bus number 3
Oct 30 09:59:18 rechenplan kernel: [ 3.030523] ohci_hcd
0000:00:13.0: irq 18, io mem 0xfe02b000
Oct 30 09:59:18 rechenplan kernel: [ 3.088082] usb usb3:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [ 3.088138] hub 3-0:1.0: USB hub found
Oct 30 09:59:18 rechenplan kernel: [ 3.088177] hub 3-0:1.0: 3 ports detected
Oct 30 09:59:18 rechenplan kernel: [ 3.173344] usb 1-2:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [ 3.188151] ahci 0000:00:11.0: version 3.0
Oct 30 09:59:18 rechenplan kernel: [ 3.188169] ahci 0000:00:11.0:
PCI INT A -> GSI 22 (level, low) -> IRQ 22
Oct 30 09:59:18 rechenplan kernel: [ 3.188349] ahci 0000:00:11.0:
AHCI 0001.0100 32 slots 6 ports 3 Gbps 0x3f impl SATA mode
Oct 30 09:59:18 rechenplan kernel: [ 3.188389] ahci 0000:00:11.0:
flags: 64bit ncq sntf ilck pm led clo pmp pio slum part
Oct 30 09:59:18 rechenplan kernel: [ 3.188834] scsi0 : ahci
Oct 30 09:59:18 rechenplan kernel: [ 3.188967] scsi1 : ahci
Oct 30 09:59:18 rechenplan kernel: [ 3.189056] scsi2 : ahci
Oct 30 09:59:18 rechenplan kernel: [ 3.189155] scsi3 : ahci
Oct 30 09:59:18 rechenplan kernel: [ 3.189249] scsi4 : ahci
Oct 30 09:59:18 rechenplan kernel: [ 3.189348] scsi5 : ahci
Oct 30 09:59:18 rechenplan kernel: [ 3.189499] ata1: SATA max
UDMA/133 abar m1024@0xfe02f000 port 0xfe02f100 irq 2301
Oct 30 09:59:18 rechenplan kernel: [ 3.189537] ata2: SATA max
UDMA/133 abar m1024@0xfe02f000 port 0xfe02f180 irq 2301
Oct 30 09:59:18 rechenplan kernel: [ 3.189575] ata3: SATA max
UDMA/133 abar m1024@0xfe02f000 port 0xfe02f200 irq 2301
Oct 30 09:59:18 rechenplan kernel: [ 3.189613] ata4: SATA max
UDMA/133 abar m1024@0xfe02f000 port 0xfe02f280 irq 2301
Oct 30 09:59:18 rechenplan kernel: [ 3.189651] ata5: SATA max
UDMA/133 abar m1024@0xfe02f000 port 0xfe02f300 irq 2301
Oct 30 09:59:18 rechenplan kernel: [ 3.189689] ata6: SATA max
UDMA/133 abar m1024@0xfe02f000 port 0xfe02f380 irq 2301
Oct 30 09:59:18 rechenplan kernel: [ 3.672022] ata1: softreset
failed (device not ready)
Oct 30 09:59:18 rechenplan kernel: [ 3.672059] ata1: failed due to
HW bug, retry pmp=0
Oct 30 09:59:18 rechenplan kernel: [ 3.836031] ata1: SATA link up
```

RAID ate my PCIe-PCI bridge's MMIO address space (?)

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3.0 Gbps (SStatus 123 SControl 300)
Oct 30 09:59:18 rechenplan kernel: [3.842397] ata1.00: ATA-7:
SAMSUNG HD642JJ, 1AA01112, max UDMA7
Oct 30 09:59:18 rechenplan kernel: [3.842435] ata1.00: 1250263728
sectors, multi 0: LBA48 NCQ (depth 31/32)
Oct 30 09:59:18 rechenplan kernel: [3.848862] ata1.00: configured
for UDMA/133
Oct 30 09:59:18 rechenplan kernel: [4.184537] ata2: SATA link down
(SStatus 0 SControl 300)
Oct 30 09:59:18 rechenplan kernel: [4.524032] ata3: SATA link down
(SStatus 0 SControl 300)
Oct 30 09:59:18 rechenplan kernel: [4.860032] ata4: SATA link down
(SStatus 0 SControl 300)
Oct 30 09:59:18 rechenplan kernel: [5.360019] ata5: softreset
failed (device not ready)
Oct 30 09:59:18 rechenplan kernel: [5.360059] ata5: failed due to
HW bug, retry pmp=0
Oct 30 09:59:18 rechenplan kernel: [5.524031] ata5: SATA link up
3.0 Gbps (SStatus 123 SControl 300)
Oct 30 09:59:18 rechenplan kernel: [5.536698] ata5.00: HPA
unlocked: 1250261615 -> 1250263728, native 1250263728
Oct 30 09:59:18 rechenplan kernel: [5.536739] ata5.00: ATA-7:
SAMSUNG HD642JJ, 1AA01112, max UDMA7
Oct 30 09:59:18 rechenplan kernel: [5.536773] ata5.00: 1250263728
sectors, multi 0: LBA48 NCQ (depth 31/32)
Oct 30 09:59:18 rechenplan kernel: [5.543194] ata5.00: configured
for UDMA/133
Oct 30 09:59:18 rechenplan kernel: [5.876032] ata6: SATA link down
(SStatus 0 SControl 300)
Oct 30 09:59:18 rechenplan kernel: [5.892616] scsi 0:0:0:0:
Direct-Access ATA SAMSUNG HD642JJ 1AA0 PQ: 0 ANSI: 5
Oct 30 09:59:18 rechenplan kernel: [5.892768] scsi 4:0:0:0:
Direct-Access ATA SAMSUNG HD642JJ 1AA0 PQ: 0 ANSI: 5
Oct 30 09:59:18 rechenplan kernel: [5.892886] ohci_hcd
0000:00:13.1: PCI INT A -> GSI 18 (level, low) -> IRQ 18
Oct 30 09:59:18 rechenplan kernel: [5.892930] ohci_hcd
0000:00:13.1: OHCI Host Controller
Oct 30 09:59:18 rechenplan kernel: [5.892986] ohci_hcd
0000:00:13.1: new USB bus registered, assigned bus number 4
Oct 30 09:59:18 rechenplan kernel: [5.893036] ohci_hcd
0000:00:13.1: irq 18, io mem 0xfe02a000
Oct 30 09:59:18 rechenplan kernel: [5.952099] usb usb4:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [5.952155] hub 4-0:1.0: USB hub found
Oct 30 09:59:18 rechenplan kernel: [5.952196] hub 4-0:1.0: 3 ports detected
Oct 30 09:59:18 rechenplan kernel: [6.161400] ehci_hcd
0000:00:12.2: PCI INT B -> GSI 17 (level, low) -> IRQ 17
Oct 30 09:59:18 rechenplan kernel: [6.161447] ehci_hcd
0000:00:12.2: EHCI Host Controller
Oct 30 09:59:18 rechenplan kernel: [6.161514] ehci_hcd
0000:00:12.2: new USB bus registered, assigned bus number 5

RAID ate my PCIe-PCI bridge's MMIO address space (?)

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Oct 30 09:59:18 rechenplan kernel: [6.161582] ehci_hcd
0000:00:12.2: debug port 1
Oct 30 09:59:18 rechenplan kernel: [6.161636] ehci_hcd
0000:00:12.2: irq 17, io mem 0xfe02c000
Oct 30 09:59:18 rechenplan kernel: [6.296026] usb 4-3: new low
speed USB device using ohci_hcd and address 2
Oct 30 09:59:18 rechenplan kernel: [6.308022] ehci_hcd
0000:00:12.2: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
Oct 30 09:59:18 rechenplan kernel: [6.308163] usb usb5:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [6.308219] hub 5-0:1.0: USB hub found
Oct 30 09:59:18 rechenplan kernel: [6.308256] hub 5-0:1.0: 6 ports detected
Oct 30 09:59:18 rechenplan kernel: [6.492870] usb 4-3:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [6.497194] usb 1-2: USB
disconnect, address 2
Oct 30 09:59:18 rechenplan kernel: [6.518562] ehci_hcd
0000:00:13.2: PCI INT B -> GSI 19 (level, low) -> IRQ 19
Oct 30 09:59:18 rechenplan kernel: [6.518605] ehci_hcd
0000:00:13.2: EHCI Host Controller
Oct 30 09:59:18 rechenplan kernel: [6.518663] ehci_hcd
0000:00:13.2: new USB bus registered, assigned bus number 6
Oct 30 09:59:18 rechenplan kernel: [6.518729] ehci_hcd
0000:00:13.2: debug port 1
Oct 30 09:59:18 rechenplan kernel: [6.518782] ehci_hcd
0000:00:13.2: irq 19, io mem 0xfe029000
Oct 30 09:59:18 rechenplan kernel: [6.529022] ehci_hcd
0000:00:13.2: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
Oct 30 09:59:18 rechenplan kernel: [6.529147] usb usb6:
configuration #1 chosen from 1 choice
Oct 30 09:59:18 rechenplan kernel: [6.529207] hub 6-0:1.0: USB hub found
Oct 30 09:59:18 rechenplan kernel: [6.529245] hub 6-0:1.0: 6 ports detected
Oct 30 09:59:18 rechenplan kernel: [6.684049] usb 4-3: USB
disconnect, address 2
Oct 30 09:59:18 rechenplan kernel: [6.736146] ohci_hcd
0000:00:14.5: PCI INT C -> GSI 18 (level, low) -> IRQ 18
Oct 30 09:59:18 rechenplan kernel: [6.736190] ohci_hcd
0000:00:14.5: OHCI Host Controller
Oct 30 09:59:18 rechenplan kernel: [6.736247] ohci_hcd
0000: SltCtl: Enable: AttnBtn- PwrFlt- MRL- PresDet-
CmdCplt- HPirq- LinkChg-
Control: AttnInd Unknown, PwrInd Unknown,
Power- Interlock-
SltSta: Status: AttnBtn- PowerFlt- MRL- CmdCplt-
PresDet+ Interlock-
Changed: MRL- PresDet+ LinkState+
RootCtl: ErrCorrectable- ErrNon-Fatal- ErrFatal-
PMEIntEna- CRSVisible-
RootCap: CRSVisible-
RootSta: PME ReqID 0000, PMEStatus- PMEPending-
Capabilities: [a0] Message Signalled Interrupts: Mask- 64bit-

RAID ate my PCIe-PCI bridge's MMIO address space (?)

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Queue=0/0 Enable+
Address: fee0f00c Data: 4151
Capabilities: [b0] Subsystem: Advanced Micro Devices [AMD]
Device 9600
Capabilities: [b8] HyperTransport: MSI Mapping Enable+ Fixed+
Capabilities: [100] Vendor Specific Information <?>
Capabilities: [110] Virtual Channel <?>
Kernel driver in use: pcieport-driver
Kernel modules: shpchp

00:11.0 SATA controller: ATI Technologies Inc SB700/SB800 SATA
Controller [AHCI mode] (prog-if 01)
Subsystem: Giga-byte Technology Device b002
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop-
ParErr- Stepping- SERR- FastB2B- DisINTx-
Status: Cap+ 66MHz+ UDF- FastB2B- ParErr- DEVSEL=medium

TAbsort- <TAbsort- <MAbsort- >SERR- <PERR- INTx-

Latency: 32
Interrupt: pin A routed to IRQ 2301
Region 0: I/O ports at ff00 [size=8]
Region 1: I/O ports at fe00 [size=4]
Region 2: I/O ports at fd00 [size=8]
Region 3: I/O ports at fc00 [size=4]
Region 4: I/O ports at fb00 [size=16]
Region 5: Memory at fe02f000 (32-bit, non-prefetchable)
[size=1K]
Capabilities: [60] Power Management version 2
Flags: PMEClk- DSI+ D1- D2- AuxCurrent=0mA
PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-
Capabilities: [50] Message Signalled Interrupts: Mask- 64bit+
Queue=0/2 Enable+
Address: 00000000fee0f00c Data: 4171
Capabilities: [70] SATA HBA <?>
Kernel driver in use: ahci
Kernel modules: ahci

00:12.0 USB Controller: ATI Technologies Inc SB700/SB800 USB OHCI0
Controller (prog-if 10)
Subsystem: Giga-byte Technology Device 5004
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop-
ParErr- Stepping- SERR- FastB2B- DisINTx-
Status: Cap- 66MHz+ UDF- FastB2B+ ParErr- DEVSEL=medium

TAbsort- <TAbsort- <MAbsort- >SERR- <PERR- INTx-

Latency: 32, Cache Line Size: 4 bytes
Interrupt: pin A routed to IRQ 16
Region 0: Memory at fe02e000 (32-bit, non-prefetchable)

RAID ate my PCIe-PCI bridge's MMIO address space (?)

RAID ate my PCIe-PCI bridge's MMIO address space (?)

[size=4K]

Kernel driver in use: ohci_hcd

Kernel modules: ohci-hcd

00:12.1 USB Controller: ATI Technologies Inc SB700 USB OHCI1
Controller (prog-if 10)

Subsystem: Giga-byte Technology Device 5004

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop-
ParErr- Stepping- SERR- FastB2B- DisINTx-

Status: Cap- 66MHz+ UDF- FastB2B+ ParErr- DEVSEL=medium

TAbsort- <TAbsort- <MAbsort- >SERR- <PERR- INTx-

Latency: 32, Cache Line Size: 4 bytes

Interrupt: pin A routed to IRQ 16

Region 0: Memory at fe02d000 (32-bit, non-prefetchable)

[size=4K]

Kernel driver in use: ohci_hcd

Kernel modules: ohci-hcd

00:12.2 USB Controller: ATI Technologies Inc SB700/SB800 USB EHCI
Controller